SECRET

#2058

NPIC/TSSG/DED-1074-68
16 February 1968

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT : Request for Approval to Commit Funds Amounting to [redacted] 25X
for the Second Phase of the Digitized Measuring Light
Table Development with [redacted] 25X

1. In FY-1967, approval was granted by the Director, NPIC for the development of a Digitized Measuring Light Table. This table was an engineering model to enable NPIC to perform feasibility tests of a general purpose, on-line mensuration system for photo interpreters. The development of the table was undertaken in two phases. The first phase was required to permit a two-axis linear measurement system (DIG) to be used on-line with NPIC's computer. The second phase of the development (FY-1968) was the mounting of the DIG system on a suitable light table.

X1 2. [redacted] was awarded the contract for Phase I
X1 in FY-1967. This contract, [redacted] T.O. 16, requires [redacted] to deliver 25X
the DIG system and the interface console for an estimated cost of [redacted] 25X
The current delivery date for the completed console is 29 February 1968.

3. After a thorough review of costs and specifications of all available light tables, the technical staff of TSSG determined that the most reasonable choice of a light table for mounting the DIG measuring system
X1 would be the new [redacted] Master Series 940 MCE with vacuum film hold-down. If approval for this project is received in the near future, [redacted] 25X
has agreed to make the necessary modifications and to mount the DIG on a GFE light table at a minimal cost to the Government. This assumes that we will agree to their demonstrating the table to the community--the total cost of this project includes the purchase price of the 940 light table. There are no contractual or security problems apparent, and this arrangement insures early delivery at a considerable reduction in cost from our
X1 original estimate of [redacted] for a more exotic light table.

4. This project is unique and designed to match NPIC on-line computer system and computer programs. There is no situation outside NPIC which would require an input station like this; as a consequence, coordination outside NPIC was deemed unnecessary.

[redacted]

Declass Review by NGA.

SECRET

SUBJECT: Request for Approval to Commit Funds Amounting to [redacted] for the Second Phase of the Digitized Measuring Light Table Development with [redacted] 25X1

5. It is requested that approval be granted to negotiate with the [redacted] for a contract to deliver a modified Light Table with a Government-furnished DIG Measuring System mounted on it at a cost not to exceed [redacted] 25X1

[redacted]
Chief, Technical Services & Support Group,
NPIC

Attachments:
R&D Catalog Form
[redacted] Proposal

APPROVED: [redacted]
ARTHUR C. LUNDAHL
Director
National Photographic Interpretation Center

1 MAR 1968
Date

Distribution:
Original - NPIC/TSSG/SS/LB (after approval)
1 - NPIC/ODir
1 - NPIC/TSSG
1 - NPIC/TSSG/SS
1 - NPIC/TSSG/DED

NPIC/TSSG/DED/[redacted] (16 Feb 68)

R & D CATALOG FORM

DATE: 12 February 1968

1. PROJECT TITLE/CODE NAME
DIGITIZED MEASURING LIGHT TABLE

2. SHORT PROJECT DESCRIPTION
This device will allow a modified light table to be connected on-line with the in-house computer. (Follow-On) (Phase II)

3.

4. LOCATION OF CONTRACTOR

5. CLASS OF CONTRACTOR
Manufacturer

6. TYPE OF CONTRACT

7. FUNDS
FY 19 67
FY 19 68
FY 19 69 $ None

8. REQUISITION NO.

9. BUDGET PROJECT NO.
NP-V-5-02058

10. EFFECTIVE CONTRACT DATE *(Begin - end)*

11. SECURITY CLASS.
AA - Confidential
T - Unclassified
W - Unclassified

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION
DDI/NPIC/TDS

13. REQUIREMENT/AUTHORITY
Operational components require a simplified, accurate measuring system and a quick indexing input station

14. TYPE OF WORK TO BE DONE
Design and Fabrication

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Viewing Systems	Photogrammetry
	Photo Interpretation
	Reporting Techniques

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.
The results of this contract will be to modify a light table equipped with [ ] "Dig" measuring scales and removable reading heads.

17. SUPPORTING OR RELATED CONTRACTS *(Agency & Other)*/COORDINATION
The project is unique and styled to match the NPIC on-line computer system and computer programs. There is no situation outside NPIC which would require an input station like this, as a consequence, coordination outside NPIC was deemed unnecessary.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT *(Continue on additional page if required)*
This project is the completion of pilot operational unit which will demonstrate the feasibility of a general use, on-line PI mensuration station. This station will allow the photo interpreter to make realitively precise measurements, input the coordinates of targets to the computer, and make plots of target areas, all without cutting up the roll of film or removing the film from his general viewing light table. The project consists of mounting the dig system; solving small interface problems and modifying the light table to serve as a pre-production prototype.

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

25X1